PATENT COOPERATION IDEATY

| То | : | | | PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) | | | | |
|---|---|--------------------|---------------------------------------|--|---|----------|--|--|
| | see form | PCT/ISA/220 | | | | | | |
| | | | | | | | | |
| | | | | Date of mailing (day/month/year) see | e form PCT/ISA/210 (second sheet) | | | |
| | e form PCT/ISA/2 | | 7446-PCT | FOR FURTHER ACTION See paragraph 2 below | | | | |
| J. | rnational application T/US2004/00308 | | International filing date (02.02.2004 | day/month/year) | Priority date (day/month/year) 05.02.2003 | | | |
| l | rnational Patent Clas 7C15/107, C07C | , , | both national classification | and IPC | | | | |
| | | 2/10, 00/03/2/ | | | | | | |
| | licant ELL OIL COMPA | ANY | | | | | | |
| | | | | | | | | |
| 1. | This opinion co | ontains indication | ons relating to the foll | owing items: | | · | | |
| | ☑ Box No. I | Basis of the op | inion | | | | | |
| | ☑ Box No. II | Priority | | | | | | |
| | ☐ Box No. III | Non-establishn | nent of opinion with rega | ard to novelty, inventive | e step and industrial applicability | | | |
| | ☐ Box No. IV | Lack of unity of | | | | | | |
| Box No. V Reasoned statement under Rule 43b applicability; citations and explanation | | | | is.1(a)(i) with regard to novelty, inventive step or industrial as supporting such statement | | | | |
| | ☐ Box No. VI | Certain docum | ents cited | | | | | |
| ☐ Box No. VII Certain defects in the international ap | | | | plication | | | | |
| ☐ Box No. VIII Certain observations on the international application | | | | | | | | |
| 2. | FURTHER ACT | ION | | | | | | |
| | If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. | | | | | | | |
| If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. | | | | | | | | |
| | For further options, see Form PCT/ISA/220. | | | | | | | |
| 3. | 3. For further details, see notes to Form PCT/ISA/220. | | | | | | | |
| | | | | | | | | |
| Nam | e and mailing addres | ss of the ISA: | | Authorized Officer | | . B | | |
| | | | | | unt. | Pelente. | | |

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/003086

| _ | Во | x N | o. I Basis of the opinion | | | | | |
|-------------------------------|---|---|---|--|--|--|--|--|
| 1. | Wit the | With regard to the language , this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item. | | | | | | |
| | | lar | nis opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search nder Rules 12.3 and 23.1(b)). | | | | | |
| 2. | With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: | | | | | | | |
| | a. type of material: | | | | | | | |
| | [| | a sequence listing | | | | | |
| | [| | table(s) related to the sequence listing | | | | | |
| | b. format of material: | | | | | | | |
| | [| | in written format | | | | | |
| | ו | | in computer readable form | | | | | |
| c. time of filing/furnishing: | | | | | | | | |
| | C | | contained in the international application as filed. | | | | | |
| | ם | | filed together with the international application in computer readable form. | | | | | |
| | | | furnished subsequently to this Authority for the purposes of search. | | | | | |
| 3. | | ha: | addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto is been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished. | | | | | |

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4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/003086

| _ | | | | | | | | |
|----|--|--|---|-------------|------------------|------|--|--|
| _ | Bo | x No. II | Priority | | | | | |
| 1. | \boxtimes | ☐ The following document has not been furnished: | | | | | | |
| | | \boxtimes | copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)). | | | | | |
| | | | ranslation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)). | | | | | |
| | Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date. | | | | | | | |
| 2. | This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date. | | | | | | | |
| 3. | 3. Additional observations, if necessary: | | | | | | | |
| | | | | • | | | | |
| | | | | | | | | |
| | Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement | | | | | | | |
| 1. | . Statement | | | | | | | |
| | Nov | elty (N) | | Yes: No: | Claims Claims | 1-32 | | |
| | Inve | entive ste | ep (IS) | Yes: | Claims | | | |
| | | | | No: | Claims | 1-32 | | |
| • | Indu | ıstrial ap | plicability (IA) | Yes: No: | Claims Claims | 1-32 | | |
| 2. | Cita | tions an | d explanations | | | | | |
| | see | separat | e sheet | | | | | |

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Re Item V.

The following documents are referred to in this communication:

D1: US 3 492 364 A (JONES WILLIAM A ET AL) 27 January 1970 (1970-01-27)

D2: US 3 442 965 A (OLDHAM WILFRED JOHN) 6 May 1969 (1969-05-06)

D3: WO 02/44114 A (STEINBRENNER ULRICH; BASF AG (DE); KRACK

GERHARD (DE); NARBESHUBER TH) 6 June 2002 (2002-06-06)

In the light of the cited documents the present claims 1-32 have to be considered as being novel (Art. 33(2) PCT) as none of these documents discloses the present subject-matter.

However, in the light of D1 (col.2, line 26 - col.5, line 5; claims 1,2), D3 (page 3, line 16 - page 7, line 5; claims 1-9) and D2 (claims 1-5) the present claims 1-32 cannot be considered as being inventive (Art. 33(3) PCT) as the object of the present application, namely to provide a method of preparing branched alkyl aromatic hydrocarbons and the present solution has already been suggested by said documents.

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